## WHAT IS CLAIMED IS:

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1. A computer-implemented method for estimating the feasibility of outsourcing information technology services, comprising:

extracting, based on one or more selection criteria, at least a portion of a first set of empirical data associated with one or more software applications in a historical portfolio, the historical portfolio containing software applications utilized by a client;

aggregating at least a portion of the extracted data;

creating a statistical model of the historical portfolio based on the first set of data;

generating a simulated portfolio based at least in part on the statistical model;

generating a cost estimate associated with outsourcing technology services based at least in part on the simulated portfolio and a second set of data, at least a portion of the second set of data containing empirical data, the empirical data containing data and assumptions relating to the historical portfolio; and

determining the feasibility of outsourcing technology services based at least in part on the cost estimate.

2. The method of Claim 1, wherein extracting at least a portion of the first set of data further comprises:

grouping the extracted data based on the one or more selection criteria;

removing, from the extracted group, the extracted data concurrently used by more than one project; and

extracting data associated with production support projects based on the one or more selection criteria.

3. The method of Claim 1, further comprising:

comprising randomly selecting at least a portion of the aggregated data to create a validation dataset:

randomly selecting at least a portion of the validation dataset; and

aggregating the randomly selected portion of the validation dataset to create a validation portfolio, the validation portfolio being used to validate the statistical model of the historical portfolio.

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4. The method of Claim 1, further comprising:

creating a training dataset from at least a portion of the aggregated data, the training dataset used to create the statistical model of the historical portfolio;

randomly selecting at least a portion of the training dataset to create a training portfolio; and

training the statistical model using the training portfolio.

- 5. The method of Claim 1, further comprising analyzing the aggregated data, wherein analyzing comprises applying descriptive statistics to correlate the aggregated data.
  - 6. The method of Claim 1, further comprising retrieving application selective offering (ASO) information, the ASO information containing information regarding the services provided by a provider relating to the management and maintenance of a software applications portfolio, the ASO information and the statistical model being used to generate the simulated portfolio.
- 7. The method of Claim 1, wherein the second set of data comprises data and assumptions related to a client, billing procedures, and cost rules related to a provider, and cost savings information related to the client.
  - 8. The method of Claim 7, wherein the cost savings information contains default industry cost savings goals.
  - 9. The method of Claim 1, wherein generating a cost estimate comprises generating a provider cost build-up estimate associated with the simulated portfolio.
- 10. The method of Claim 1, wherein generating a cost estimate comprises generating a client price estimate associated with the simulated portfolio.

11. The method of Claim 1, wherein determining the feasibility of outsourcing information technology services comprises:

calculating a solution feasibility index associated with the cost estimate; and comparing the index to one or more feasibility ranges.

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12. Software for estimating the feasibility of outsourcing information technology services, the software embodied in a computer readable medium and comprising computer code such that when executed is operable to:

extract, based on one or more selection criteria, at least a portion of a first set of empirical data associated with one or more software applications in a historical portfolio, the historical portfolio containing software applications utilized by a client;

aggregate at least a portion of the extracted data;

create a statistical model of the historical portfolio based on the first set of data;

generate a simulated portfolio based at least in part on the statistical model;

generate a cost estimate associated with outsourcing technology services based at least in part on the simulated portfolio and a second set of data, at least a portion of the second set of data containing empirical data, the empirical data containing data and assumptions relating to the historical portfolio; and

determine the feasibility of outsourcing technology services based at least in part on the cost estimate.

13. The software of Claim 12, wherein the code is further operable to: group the extracted data based on the one or more selection criteria;

remove, from the extracted group, the extracted data concurrently used by more than one project; and

extract data associated with production support projects based on the one or more selection criteria.

25 14. The software of Claim 12, wherein the code is further operable to: randomly select at least a portion of the aggregated data to create a validation dataset;

randomly select at least a portion of the validation dataset; and

aggregate the randomly selected portion of the validation dataset to create a validation portfolio, the validation portfolio being used to validate the statistical model of the historical portfolio.

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- 15. The software of Claim 12, wherein the code is further operable to: create a training dataset from at least a portion of the aggregated data, the training dataset used to create the statistical model of the historical portfolio;
- randomly select at least a portion of the training dataset to create a training 5 portfolio; and

train the statistical model using the training portfolio.

- 16. The software of Claim 12, wherein the code is further operable to analyze the aggregated data by applying descriptive statistics to correlate the aggregated data.
  - 17. The software of Claim 12, wherein the code is further operable to retrieve application selective offering (ASO) information, the ASO information containing information regarding the services provided by a provider relating to the management and maintenance of a software applications portfolio, the ASO information and the statistical model being used to generate the simulated portfolio.
- 18. The software of Claim 12, wherein the second set of data comprises data and assumptions related to a client, billing procedures, and cost rules related to a provider, and cost savings information related to the client.
  - 19. The software of Claim 18, wherein the cost savings information contains default industry cost savings goals.
- 25 20. The software of Claim 12, wherein the code is further operable to generate a cost estimate by generating a provider cost build-up estimate associated with the simulated portfolio.
- 21. The software of Claim 12, wherein the code is further operable to generate a cost estimate by generating a client price estimate associated with the simulated portfolio.

22. The software of Claim 12, wherein the code is further operable to determine the feasibility of outsourcing technology services by:

calculating a feasibility solution index associated with the cost estimate; and comparing the index to provider-assigned feasibility ranges.